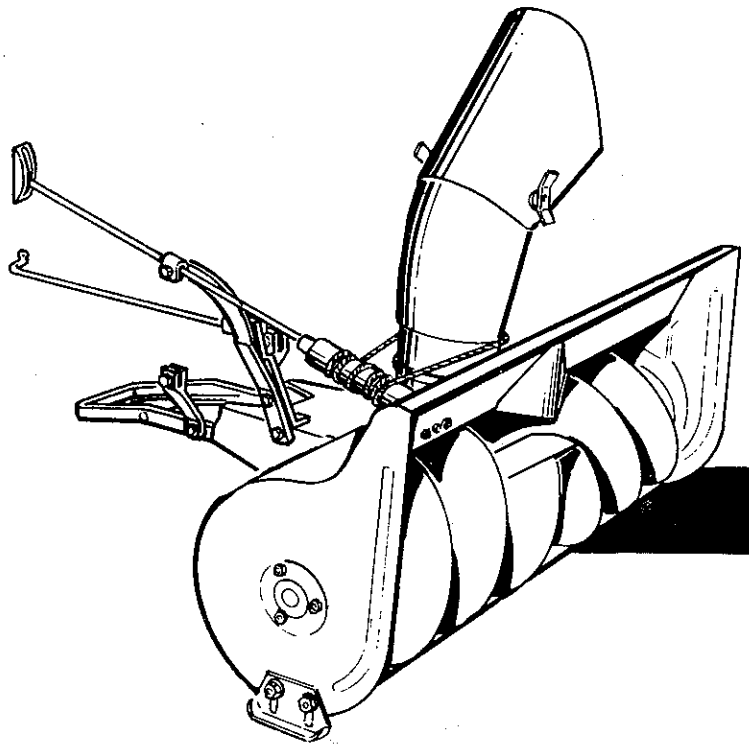
T8

PARTS LIST & INSTRUCTIONS

HOMELITE®



32"

SNOW THROWER

PART NO. 24659

Safety...

- Read over carefully the owners manual for your tractor and rotary snow thrower before attempting to operate snow thrower.
- Do not make any adjustments, repairs or service the snow thrower while engine is running.
- Always be sure area is clear of all bystanders before operating.
- Stay clear of the auger and discharge spout when the engine is running.
- Be sure the snow thrower auger has stopped turning before attempting any repairs or adjustments to the snow thrower.
- Clear the work area of any object which could possibly be picked up and thrown by snow thrower or cause damage to it.
- Disengage the power take-off and stop the engine before leaving operators position.
- Operate the snow thrower only in daylight or good artificial light.
- Use caution when operating on sloping surfaces.
- When operating the snow thrower, never direct the discharge spout toward or near any bystanders or allow anyone near snow thrower when in operation.

CAUTION: The auger may continue to rotate a few seconds after the clutch has been disengaged and the engine shut off.

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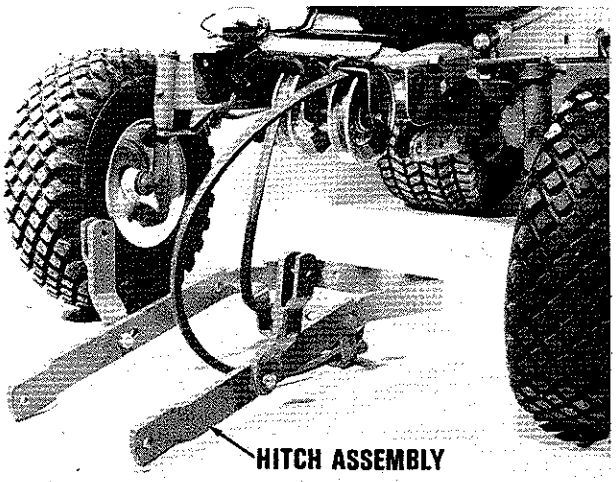
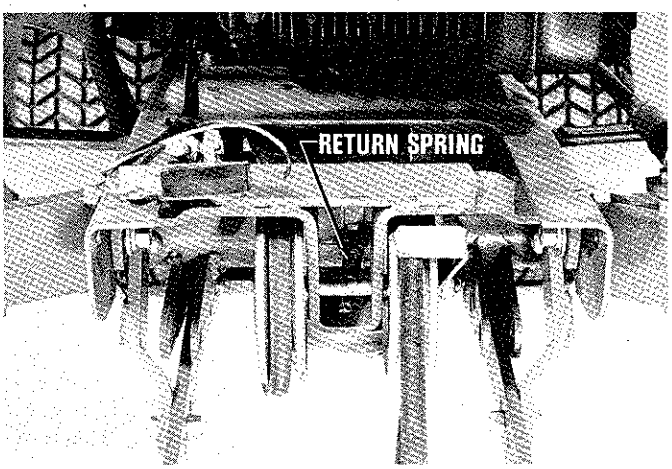
ASSEMBLY

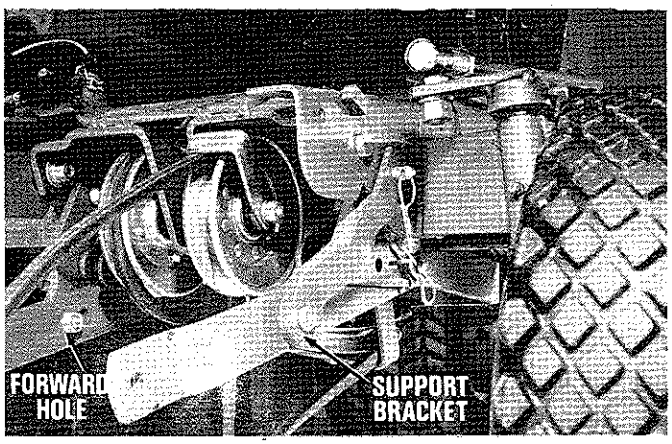
1. Disconnect the return spring between PTO idler pulleys. Place belt around rotor drive pulley on the hitch assembly. Position hitch assembly under tractor (see photo).



Pass the belt over PTO idle pulleys through cutout in crossmember and around lower engine pulley. Replace the return spring previously removed and pull forward all slack to left side of unit (see photo).

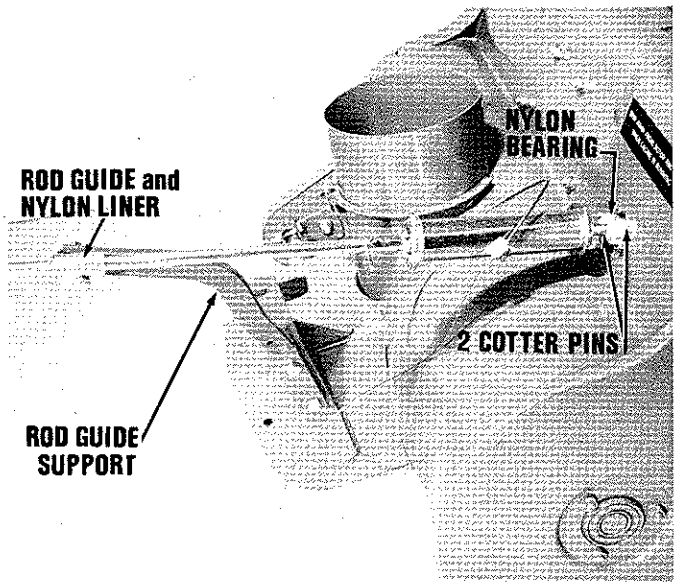


2. Secure hitch to tractor using clevis pins and quick pins. Be sure to mount rear of hitch to the rear most holes in the hitch support brackets. Check to insure support arm assembly is mounted in the foward holes in hitch assembly (see photo).

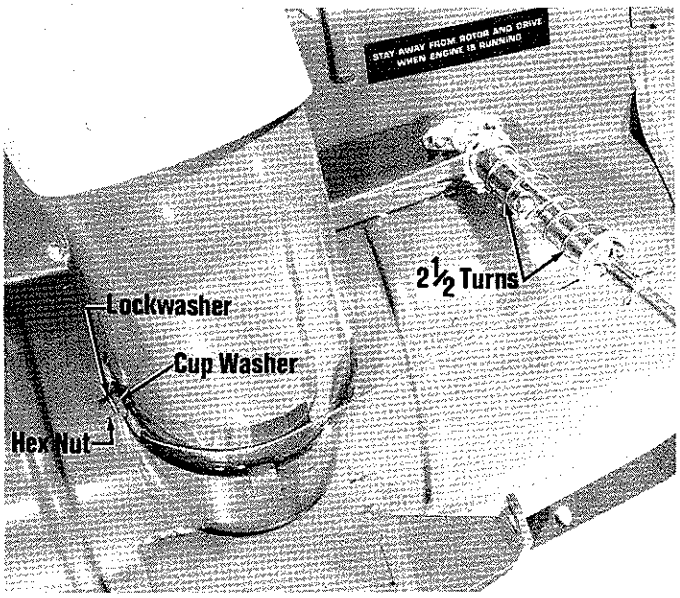


3. Attach skid shoes to body using the 3/8-16 x 3/4 carriage bolts, 3/8" flat washers, 3/8" lockwashers and 3/8" full hex nuts.

4. Secure rod guide support to body using the 3/8-16 x 1 hex head bolts, 3/8" lockwashers, and 3/8-16 hex nuts supplied. Insert spout control rod into spout control tube and secure with 1" cotter pin. Now insert spout control rod assembly into nylon bearing on right side of body and secure with two 3/4" cotter pins. Attach rod guide and nylon liner to control rod and secure to rod guide support arm with the hex head bolt, lockwasher and hex nut (see photo).

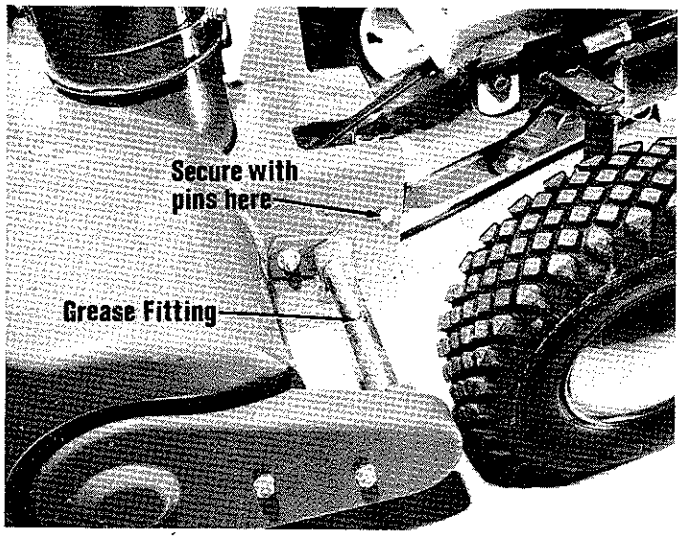


5. Lower spout over neck of discharge spout on body and line up with slot in rear of spout neck. Rotate spout until it faces forward and connect spout extension with carriage bolt, hex cup washer and wing nut. Position control rod tube so that cable clamp faces side of discharge spout. Loop wire cable on most forward part 2-1/2 coils counter-clockwise passing over the top of guide tube and secure to stud on spout. Coil 2-1/2 times on rear of tube clockwise passing under tube to spout and secure with special cup washer, lockwasher and hex nut (see photo).

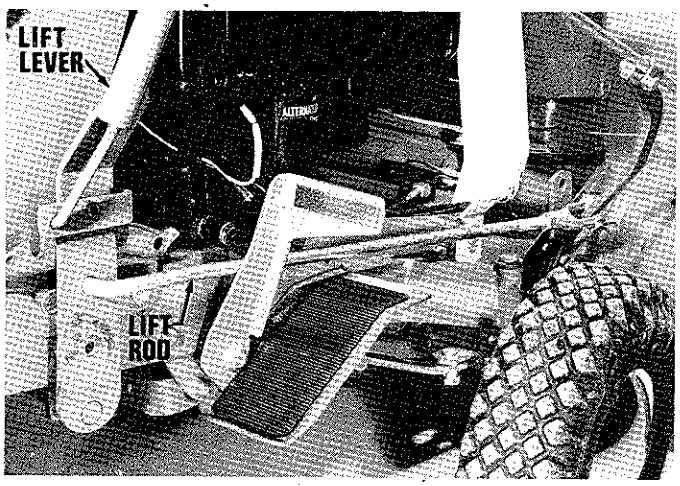


NOTE: HOOD REMOVED FOR PHOTOGRAPHIC PURPOSES

6. Position the snow thrower in front of the tractor lining up hitch with mounting holes in body and secure with clevis pin and quick pin (see photo).



7. Place lift control handle in forward most position. Insert lift rod into upper hole on lift control and secure with quick pin. Loosen the lock nut and adjust clevis to line up with mounting hole in rod guide support. Secure with clevis pin and quick pin and tighten locknut (see photo).



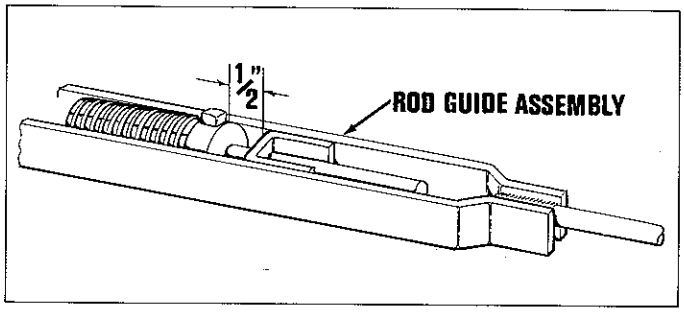
BELT ADJUSTMENT

The lower pulley on the hitch assembly may be moved forward or backward in the slotted hole for belt adjustment purposes. Adjust this pulley so there is sufficient belt slack for proper idling of the snow thrower.

Once proper belt slack for idling has been obtained, the PTO spring must be checked and adjusted to give the proper belt tension during operation. Proceed as follows:

1. Engage the PTO lever.
2. Measure the distance from the set collar to the rod guide assembly. There should be 1/2" spacing between these points. (See Figure)

It may be necessary to adjust the set collar to obtain the 1/2". Be sure to disengage PTO lever first. Loosen the set screw on the collar and reposition the rod in the collar. Engage PTO lever and check again. Repeat this procedure until the 1/2" is obtained.



OPERATION

CHUTE DEFLECTOR POSITION

The chute deflector can be adjusted by loosening the wing nuts and moving the deflector up or down. Be sure to tighten both wing nuts after positioning the deflector. The chute deflector position supplements the engine speed control to control throwing distance. The highest position provides the greatest throwing distance. Most snow moving can be done with the deflector all the way up by using the engine speed lever to control the throwing distance. Hold the rear of the deflector down while tightening the wing nuts to make sure all of the snow goes out the chute.

SKID SHOE ADJUSTMENT

Gravel Surface Use Adjustment

The two skid shoes located on each side of the snow thrower housing, should be lowered all the way down when operating on a gravel surface. To adjust the skid shoes, raise the snow thrower housing a couple of inches off the ground. Loosen the two nuts and drop the skid shoes to the lowered position. Set the bottom surface of the skid shoes so they are level or slightly (maximum of 1/8") higher in the front and tighten nuts securely. Both skid shoes should be positioned the same. The snow thrower will now be supported on the skid shoes so the scraper bar can skim the snow from the surface without picking up and throwing stones.

Hard Surface Use Adjustment

Loosen the two skid shoe mounting nuts and rest the snow thrower on a hard level surface. The snow thrower should now be supported by the tractor and the skid shoes with the scraper bar resting on the ground surface. Tighten the nuts on both skid shoes taking care that their position doesn't change while the nuts are tightened. The full width scraper bar on your snow thrower will now get down to the ground surface and scrape it clean.

OPERATING THE TRACTOR AND SNOW THROWER

Determining Snow Removal Pattern

Before beginning to remove snow from any area, the operator should determine the best snow removal pattern. The size, shape, terrain and obstructions of the area to be cleared should be considered. Usually it is best to drive back and forth the long direction of the area to minimize turning. CAUTION: ALWAYS RAISE THE SNOW THROWER BEFORE TURNING OR BACKING TO PREVENT DAMAGE TO IT.

TRANSPORTING THE SNOW THROWER

Transport the snow thrower in the raised position with the power take off control in the disengaged position. Ground speed should be adjusted according to the type and condition of the road surface. CAUTION: WITH THE SNOW THROWER INSTALLED ON THE TRACTOR, WEIGHT ON THE FRONT WHEELS WILL BE SUBSTANTIALLY INCREASED MAKING TURNING MORE DIFFICULT UNDER SOME CONDITIONS.

ENGINE SPEED

The tractor engine should normally be operated at 3/4 to full speed when using the snow thrower. Operate it at full speed when throwing deep or heavy snow. Less than 3/4 speed may be used in light snow if a short throwing distance is desirable.

ENGAGING SNOW THROWER DRIVE

The tractor engine should be operating at 1/2 to 3/4 throttle when the snow thrower is engaged. To engage the snow thrower drive, push forward and down on power take off lever. CAUTION: IF THE SNOW THROWER DRIVE SHOULD BEGIN TO SLIP WHILE THE POWER TAKE OFF IS ENGAGED, DISENGAGE THE POWER TAKE OFF CLUTCH IMMEDIATELY TO PREVENT DAMAGE TO THE SNOW THROWER DRIVE BELT OR POWER TAKE OFF CLUTCH.

RAISING AND LOWERING THE SNOW THROWER

The snow thrower should be raised and lowered using the tractor lift lever.

CONTROLLING GROUND SPEED

The best ground speed will vary greatly with the type and amount of snow being thrown. For most conditions one to two MPH will be a good starting speed. Refer to the operation chart in your tractor owner's manual for speed control settings to achieve the desired speed. First gear is normally used for snow throwing.

THROWING DISTANCE

The snow should be deposited beyond the surface you want to clear if at all possible. Start with the deflector all the way up and adjust engine speed so that the thrown snow is deposited just beyond the far side of the area to be cleared. If the snow is only a couple of inches deep, it may be necessary to go over the ground quite rapidly to feed snow into the auger. In this situation the deflector should be lowered and the engine speed increased. CAUTION: STOP THE ENGINE AND PLACE PTO IN NEUTRAL WHILE CHANGING THE DEFLECTOR ADJUSTMENT.

THROWING DIRECTION

The spout control handle is used to rotate the snow thrower spout to the left and right to control the throwing direction. Whenever possible, begin snow removal on the upwind side of the sidewalk or driveway so it is not necessary to blow snow over an area already cleared.

The chute should be rotated to discharge the snow downwind, not into it. Always adjust the spout and extension so that you are well out of the path of the snow stream. CAUTION: CONSTANT INHALATION OF COLD, WET VAPOR IS EXTREMELY DANGEROUS. ON WINDY DAYS, HAVE YOUR NOSE AND MOUTH COVERED UNLESS YOUR TRACTOR IS EQUIPPED WITH A SNOW CAB.

MOVING THE SNOW

Light Snow

Snow up to 8" deep can usually be cleared in one pass the full width of the machine. Face the snow thrower into the snow, set the throttle at 1/2 speed or more and engage the tractor power take off completely. When the auger drive is fully engaged, readjust the engine speed as described under Throwing Distance. Select the proper gear or transmission speed control lever setting to give the speeds suggested under Controlling Ground Speed. Drive the tractor and snow thrower slowly into the snow. When you have come to the end of a pass, raise the snow thrower and turn the tractor around to make the next pass along side of the cleared area. Allow about 2" of overlap into the cleared area. Lower the snow thrower, rotate the chute so the snow stream goes downwind, and engage the tractor drive for the second pass. Repeat these steps until the area is cleared.

HEAVY DEEP SNOW

With very dense snow or snow deeper than the center of the auger, a different method is necessary.

First Pass

Lower the deflector about 1/2 way and run the engine at full speed. Raise the snow thrower until the top of the auger housing is above the top of the snow whenever possible. Engage the tractor drive gently, drive slowly through the snow. Readjust the deflector if necessary to obtain the desired throwing distance. Remember to stop the engine before adjusting the deflector. At the end of the pass, turn around as described under light snow, except go over the same path with the snow thrower in the lowered position. In some cases it may be better to back up every few feet and clear the snow down to the ground surface, so the tractor tires are not running in deep snow.

Subsequent Passes

Use the same procedure as for light snow, but substantially increase the overlap into the cleared area. In other words, take a narrower slice of snow than the width of the auger housing. Judge how wide a slice to take by watching the snow stream. It should continue to flow freely from the chute. If it does not, slow the tractor ground speed or take a narrower slice of snow. Any time snow stops flowing freely from the spout, use reverse to back away until the snow thrower clears itself and then inch slowly into the snow. You will soon get the feel of how fast to go, and how wide a slice to take.

FOREIGN OBJECT IN THE AUGER OR PLUGGED CHUTE

If the auger stalls or the chute plugs, disengage the tractor power take off control immediately. Stop the engine, set the parking brake and remove the foreign object or clear the spout. Always stop the engine before working near or on the auger or spout.

STORING THE SNOW THROWER

After the clearing job is finished, the tractor should be transported to a sheltered area. When transporting the snow thrower, always disengage the power take off, and lift the snow thrower to the raised position. Place the transmission and power take off control in the neutral position and run the engine at slow speed for 5 minutes to melt and dry up the snow in hidden areas to prevent icing.

MAINTENANCE

After Each Use

With the engine stopped and the PTO in "Neutral", inspect the snow thrower for loose or missing bolts, pins and worn or damaged parts. Check for any buildup of ice in the thrower housing and around pulleys which may cause damage when unit is started. Make any necessary repairs before using the snow thrower again.

Every 15 Hours of Operation

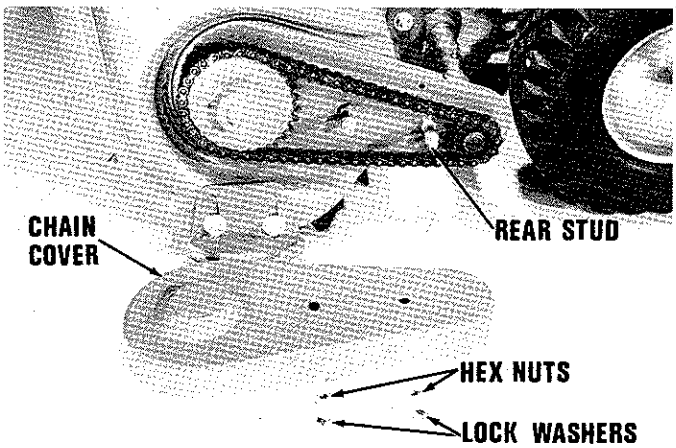
There is one grease fitting located on the cross shaft. Wipe off fitting and lubricate with a general purpose automotive type grease. Apply a coating of grease on the chain every 15 hours of operation.

An occasional application of light motor oil should be applied on all moving parts.
NOTE: Do not get oil or grease on belts or pulleys.

Once Each Year

Once each year or more often if the snow thrower is used commercially, the drive chain should be inspected for wear and adjustment. Proceed as follows:

1. Remove the two hex nuts and drive chain cover.



2. Inspect the chain for wear and excessive slack. Replace if worn.

To Adjust Chain:

1. Loosen the rear stud on the chain side plate.
2. Pull back on the crosspiece until all slack is taken out of the chain.
3. Tighten stud and replace chain guard.

To remove and replace chain loosen rear stud and push forward on crosspiece until chain can be removed from smaller sprocket. Install new chain and follow procedures for adjusting chain.

ORDERING REPLACEMENT PARTS

Replacement parts required for maintenance services or repair work should be purchased from your HOMELITE dealer. When ordering parts, always furnish model and serial number to dealer.

ACCESSORIES

The following accessories can be purchased through your HOMELITE dealer.

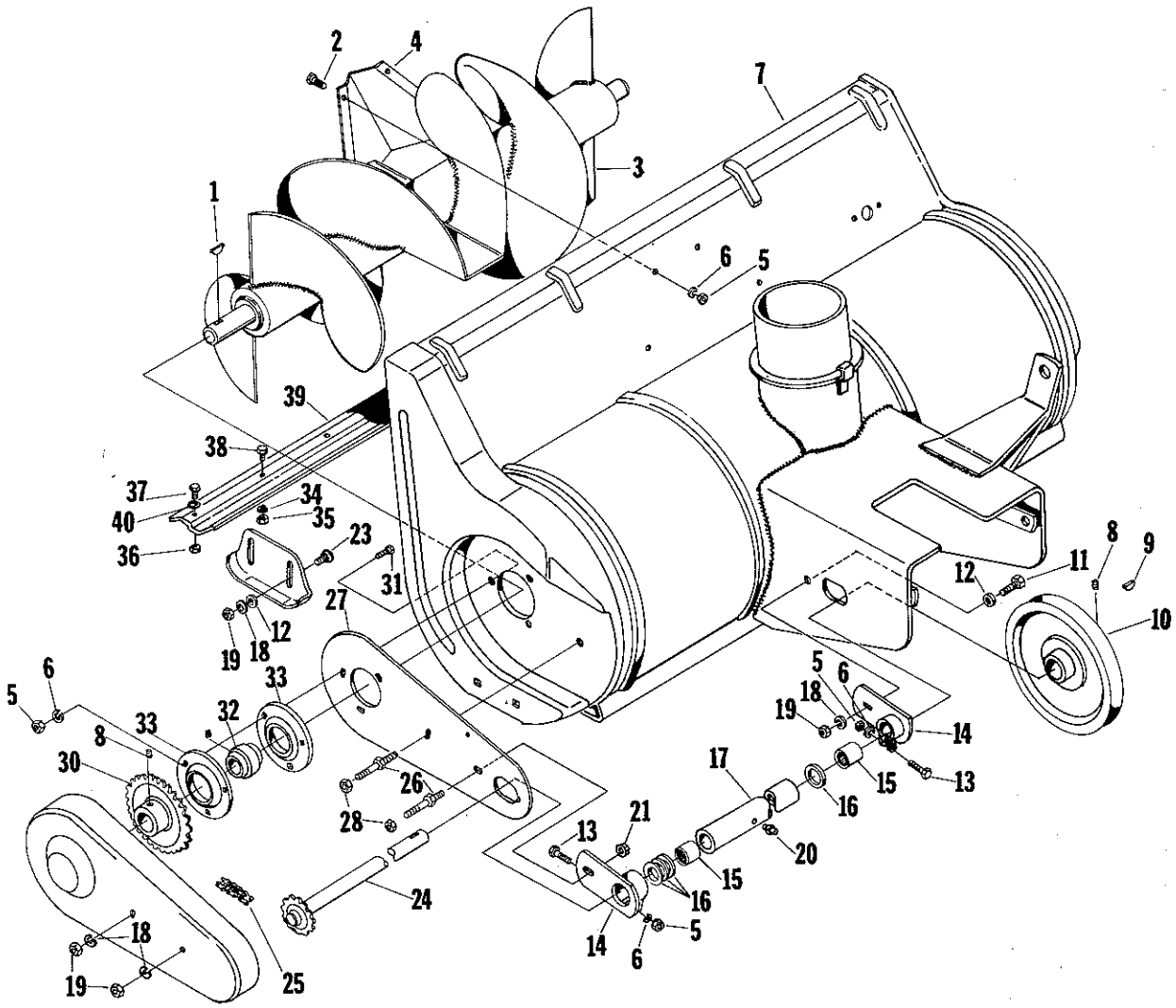
1. Four rear wheel weights.
2. Two front wheel weights.
3. Tire chains.

TROUBLE SHOOTING

TROUBLE	POSSIBLE SOLUTION
AUGER DOES NOT ROTATE	• PTO NOT ENGAGED. • DRIVE BELT SLIPPING.
AUGER ROTATES BUT DOES NOT THROW SNOW FAR ENOUGH	• ENGINE SPEED TO LOW. • GROUND SPEED TOO FAST. • CLOGGED DISCHARGE SPOUT.
SCRAPER BAR DOES NOT CLEAN DOWN TO HARD SURFACES	• SKID SHOES NOT PROPERLY ADJUSTED.
SNOW THROWER PICKS UP AND THROWS STONES WHEN USED ON GRAVEL SURFACE.	• SKID SHOES NOT PROPERLY ADJUSTED.
TRACTOR DOES NOT HAVE SUFFICIENT TRACTION	• ADD WHEEL WEIGHTS AND TIRE CHAINS.
TRACTOR NOT STABLE ON SLOPING SURFACES	• REDUCE GROUND SPEED. • ADD WHEEL WEIGHTS CHECK FOR CORRECT TIRE INFLATION (OWNER'S MANUAL).

HOMELITE®
A textron DIVISION
PORT CHESTER, NEW YORK, U.S.A. 10573

BODY, ROTOR & DRIVE ASSEMBLY

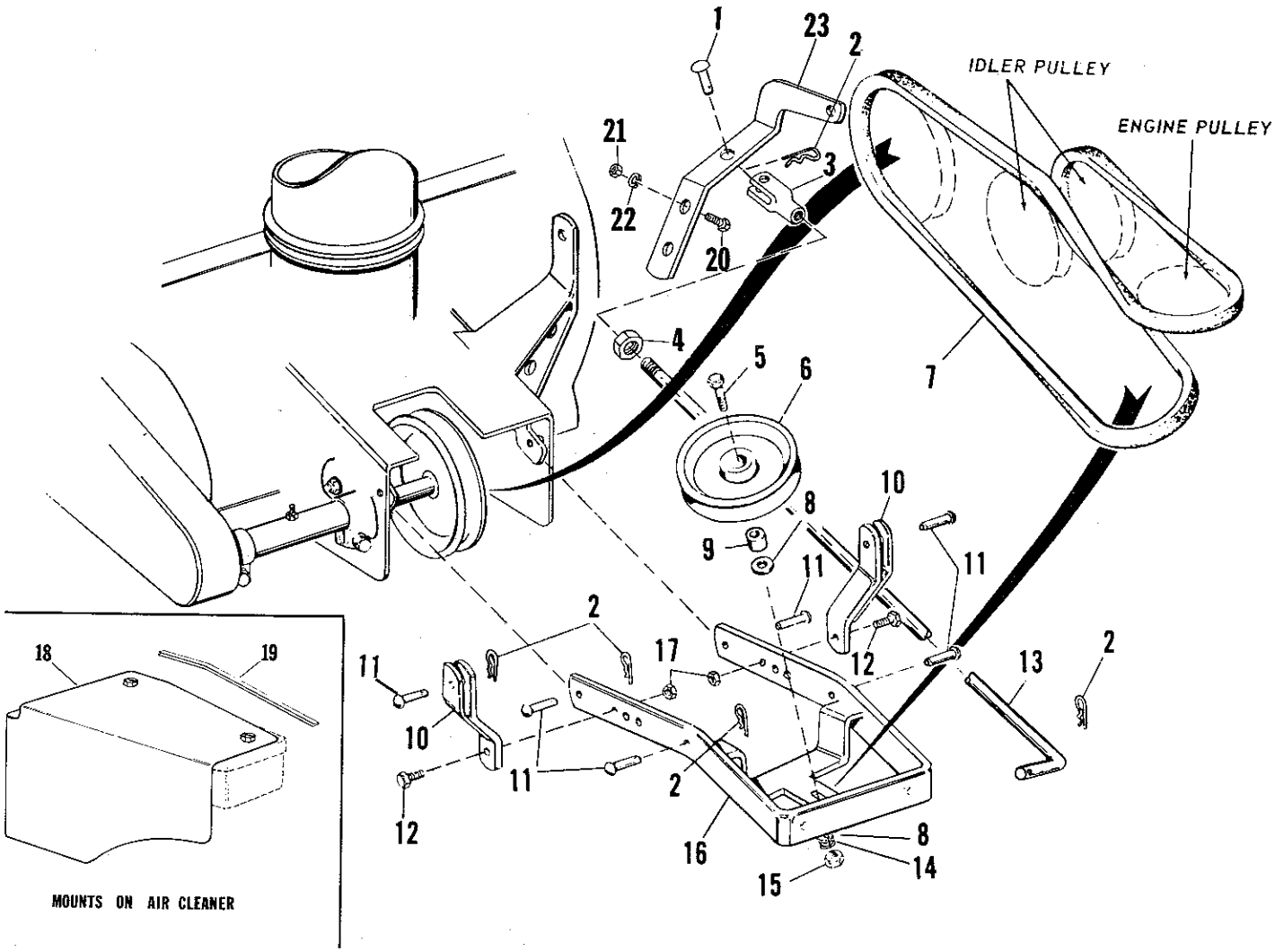


No.	Description	Part No.	Qty.
1	KEY-hi-pro	LM-01510-40	1
2	SCREW-hex cap, 5/16-18 x 5/8	LM-09193-18	4
3	ROTOR	LM-01068-47	1
4	DEFLECTOR	LM-01067-74	1
5	NUT-hex, 5/16-18	LM-09173-72	12
6	WASHER-lock, 5/16	LM-09173-56	12
7	BODY	LM-01611-98	1
8	SCREW-set, 5/16-18 x 5/16	LM-09117-12	2
9	KEY-Woodruff #9	LM-09051-23	1
10	PULLEY-drive	LM-01064-85	1
11	SCREW-hex cap, 3/8-16 x 1	LM-09077-31	1
12	WASHER-flat, 3/8	LM-09173-78	4
13	SCREW-hex cap, 5/16-18 x 1-1/2	LM-09199-33	2
14	CLAMP-support assembly	LM-01064-76	2
15	BEARING-needle	LM-01542-58	2
16	WASHER	LM-80610-12	1
17	HOUSING-bearing	LM-01068-54	1
18	WASHER-lock, 3/8	LM-09169-65	7
19	NUT-hex, 3/8-16	LM-09169-50	7
20	FITTING-grease	LM-09128-08	1

No.	Description	Part No.	Qty.
21	NUT-flange, 3/8-16	LM-09283-52	2
22	SKID	LM-01067-47	2
23	BOLT-carriage, 3/8-16 x 3/4	LM-09221-10	4
24	SHAFT	LM-01068-51	1
25	CHAIN	LM-01060-58	1
26	STUD	LM-01067-71	2
27	PLATE-side	LM-01707-54	1
28	NUT-hex lock, 3/8-16	LM-09234-28	2
29	GUARD-chain	LM-01708-65	1
30	SPROCKET-rotor	LM-01066-53	1
31	SCREW-hex cap, 5/16-18 x 3/4	LM-09173-97	6
32	CARTRIDGE-bearing w/setscrew	LM-01067-32	2
33	FLANGE-bearing	LM-01610-69	4
34	NUT-hex, 1/4-20	LM-09166-22	6
35	WASHER-lock, 1/4	LM-09169-64	6
36	NUT-hex lock, 5/16-18	LM-09233-62	2
37	SCREW-hex cap, 5/16-18 x 5/8	LM-09252-05	2
38	SCREW-hex cap, 1/4-20 x 5/8	LM-09219-59	6
39	SCRAPER-body	LM-01068-53	1
40	WASHER-1/2	LM-09173-77	2

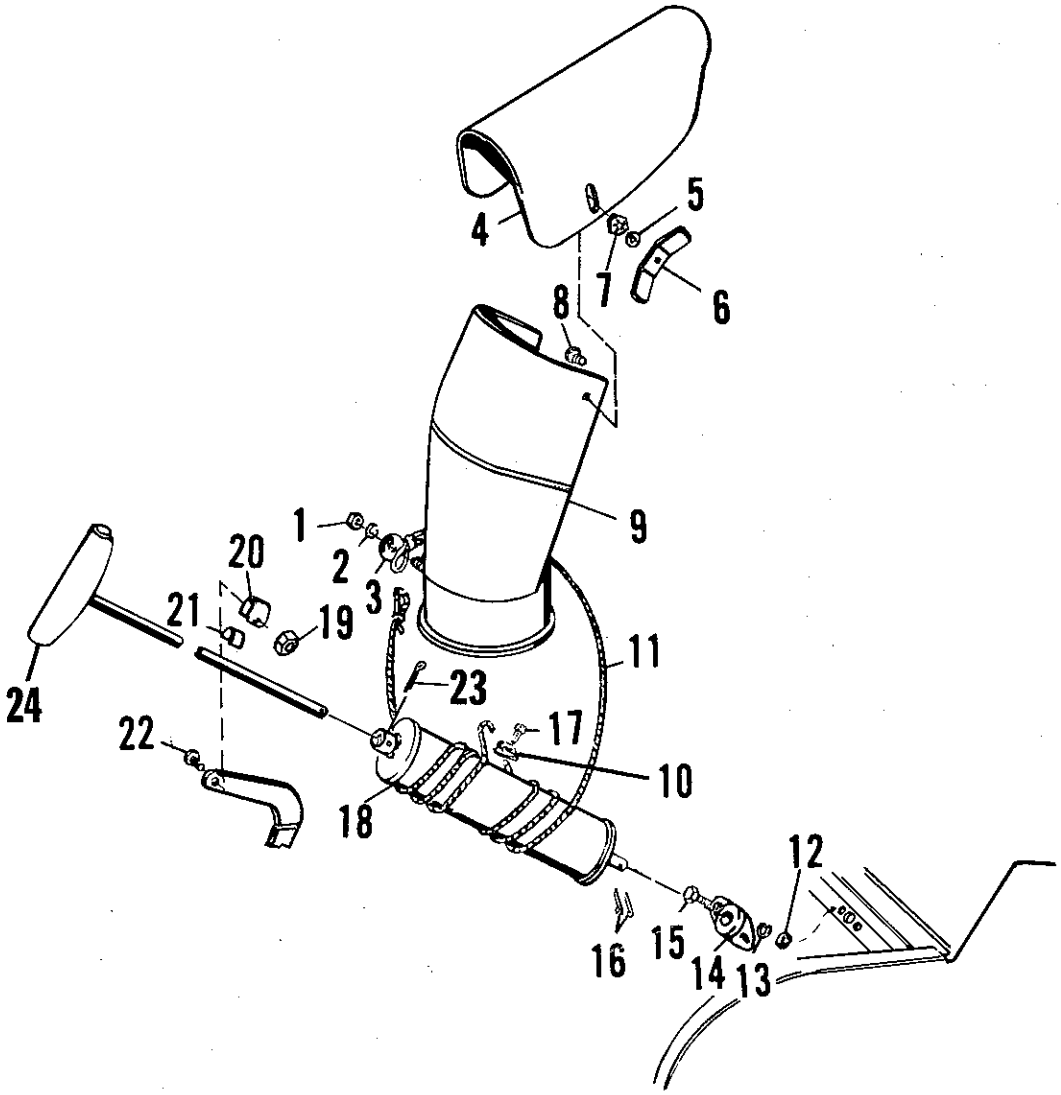
ALWAYS FURNISH MODEL AND SERIAL NUMBER WHEN ORDERING PARTS.

HITCH ASSEMBLY



No.	Description	Part No.	Qty.
1	PIN-yoke	LM-01543-05	1
2	PIN-quick	LM-09181-96	8
3	YOKE-end adjusting	LM-01576-31	1
4	NUT-hex, 1/2-20	LM-09194-23	1
5	SCREW-hex cap, 3/8-16 x 3/4	LM-09081-27	1
6	PULLEY	LM-01010-96	1
7	BELT-"V"	LM-01082-09	1
8	WASHER-flat, 3/8	LM-09173-78	2
9	SPACER	LM-01541-77	1
10	ARM-support	LM-16072-22	2
11	PIN	LM-01563-06	6
12	SCREW-hex cap, 3/8-16 x 1	LM-09077-31	2
13	ROD-lift	LM-16075-61	1
14	WASHER-lock, 3/8	LM-09169-65	1
15	NUT-hex, 3/8-16	LM-09169-50	1
16	ARM-push	LM-16072-24	1
17	NUT-hex lock, 3/8-16	LM-09234-28	2
18	DEFLECTOR-heat	LM-01612-96	1
19	FILM-shield	LM-01702-52	1
	DECAL-safety	LM-01612-47	1
20	SCREW-hex cap, 3/8-16 x 1	LM-09077-31	2
21	NUT-hex, 3/8-16	LM-09169-50	2
22	WASHER-lock, 3/8	LM-09169-65	2
23	SUPPORT-spout adj. rod	LM-16075-62	1

SPOUT ASSEMBLY



No.	Description	Part No.	Qty.
1	NUT-hex, 5/16-18	LM-09173-72	1
2	WASHER-lock, 5/16	LM-09173-56	1
3	WASHER-cup	LM-01713-79	1
4	EXTENSION-spout	LM-01067-60	1
5	WASHER-flat, 3/8	LM-09173-78	2
6	NUT-wing, 5/16-18	LM-01062-29	2
7	WASHER-lock, shakeproof, 3/8	LM-09287-10	2
8	BOLT-carriage, 5/16-18 x 3/4	LM-09205-62	2
9	SPOUT	LM-01067-62	1
10	CLAMP-cable	LM-01713-82	1
11	CABLE	LM-01713-62	1
12	NUT-hex, 1/4-20	LM-09166-22	2
13	WASHER-lock, 1/4	LM-09169-64	2
14	BEARING	LM-01064-91	1
15	SCREW-hex cap, 1/4-20 x 5/8	LM-09077-27	2
16	PIN-cotter, 3/32 x 3/4	LM-09184-47	2
17	SCREW-Taptite, 1/4-20 x 3/8	LM-09274-28	1
18	TUBE-spout control	LM-01068-09	1
19	NUT-hex lock, 5/16-18	LM-09233-62	1
20	GUIDE-rod	LM-01520-50	1
21	LINER-guide	LM-01211-75	1
22	SCREW-hex cap, 5/16-18 x 1-1/2	LM-09199-33	1
23	PIN-cotter, 5/32 x 1	LM-09184-55	1
24	HANDLE	LM-01066-06	1

NUMERICAL PARTS LIST

Part No.	Description	Qty.
LM 01010 96	Pulley-idler	1
LM 01060 58	Chain w/conn. link	1
LM 01064 76	Clamp-support	2
LM 01064 85	Pulley-drive	1
LM 01064 91	Bearing	1
LM 01066 06	Handle Assembly	1
LM 01066 53	Sprocket-rotor	1
LM 01067 32	Bearing Cartridge	2
LM 01067 47	Skid	2
LM 01067 60	Extension-spout	1
LM 01067 62	Spout Assembly	1
LM 01067 71	Stud	2
LM 01067 74	Deflector	1
LM 01068 09	Tube Assembly	1
LM 01068 47	Rotor Assembly	1
LM 01068 51	Shaft Assembly	1
LM 01068 53	Scraper-body	1
LM 01068 54	Housing-bearing	1
LM 01082 09	Belt-"V"	1
LM 01211 75	Liner-guide	1
LM 01510 40	Key-hi pro	1
LM 01520 50	Guide-rod	1
LM 01541 77	Spacer	1
LM 01542 58	Bearing-needle	2
LM 01543 05	Pin-yoke	1
LM 01563 06	Pin-rd. hd. -3/8 x 1-1/2	6
LM 01576 31	Yoke-rod end	1
LM 01610 69	Flange -bearing	4
LM 01611 98	Body Assembly	1
LM 01612 47	Decal-safety	1
LM 01612 96	Deflector-heat	1
LM 01702 52	Film-shield	1
LM 01707 54	Plate-side	1
LM 01708 65	Guard-chain	1
LM 01713 62	Cable Assembly	1
LM 01713 82	Clamp	1
LM 09051 23	Key-Woodruff #9	2

Part No.	Description	Qty.
LM 09128 08	Fitting-grease	1
LM 09181 96	Pin-quick	8
LM 16072 22	Arm Assembly-support	2
LM 16072 24	Arm Assembly-push	1
LM 16075 61	Rod-lift	1
LM 16075 62	Support-spout adj. rod	1
	FASTENING PARTS	
LM 01062 29	Nut-wing, 5/16-18	2
LM 01713 79	Washer-cup	1
LM 09077 27	1/4-20 x 5/8	2
LM 09077 31	3/8-16 x 1	5
LM 09081 27	3/8-16 x 3/4	1
LM 09117 12	5/16-18 x 5/16	2
LM 09166 22	Nut-1/4-20	8
LM 09169 50	Nut-3/8-16	10
LM 09169 64	Washer-lock, 1/4	8
LM 09169 65	Washer-lock, 3/8	10
LM 09173 56	Washer-lock, 5/16	13
LM 09173 72	Nut-5/16-18	13
LM 09173 77	Washer-flat, 1/4	2
LM 09173 78	Washer-flat, 3/8	8
LM 09173 97	5/16-18 x 3/4	6
LM 09184 47	Pin-cotter, 3/32 x 3/4	2
LM 09184 55	Pin-cotter, 5/32 x 1	1
LM 09193 18	5/16-18 x 5/8	4
LM 09194 23	Nut-hex, 1/2-20	1
LM 09199 33	5/16-18 x 1-1/2	3
LM 09205 62	Bolt-5/16-18 x 3/4	2
LM 09219 59	1/4-20 x 5/8	6
LM 09221 10	Bolt-3/8-16 x 3/4	4
LM 09233 62	Nut-hex, 5/16-18	3
LM 09234 28	Nut-hex, 3/8-16	4
LM 09252 05	5/16-18 x 5/8	2
LM 09274 28	1/4-20 x 3/8	1
LM 09283 52	Nut-flange, 3/8-16	2
LM 09287 10	Washer-lock, 3/8	2
LM 80610 12	Washer	7

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